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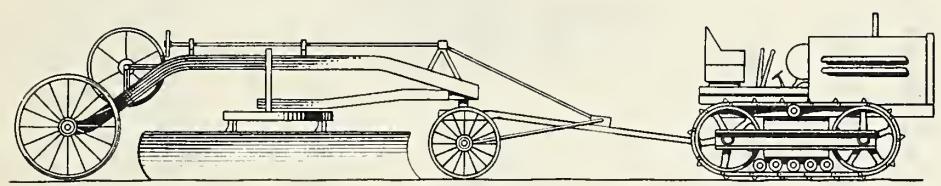
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# CONSTRUCTION



## HINTS

UNITED STATES DEPARTMENT OF AGRICULTURE, FOREST SERVICE  
WASHINGTON, D. C.

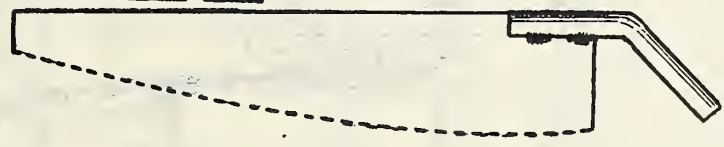
Vol. 2

December 12, 1936

No. 23

Made by Carl England and Foreman R. Roubal  
Ottawa National Forest - Region Nine

### ONE MAN SAW



These saws are made from condemned two man saws. Two feet was cut off the original saw making the one man saw three feet long. Handle made from 3/4" pipe salvaged from condemned grindstone frame. Handle is 18" long and is bent down at a 45° angle about 10" from the end to go on the saw. Handle is split back 8" and the saw fits in the groove. The handle is then brazed to the saw along the top and spot brazed in two places along the bottom. Length varies according to break or kink in the two man saw.

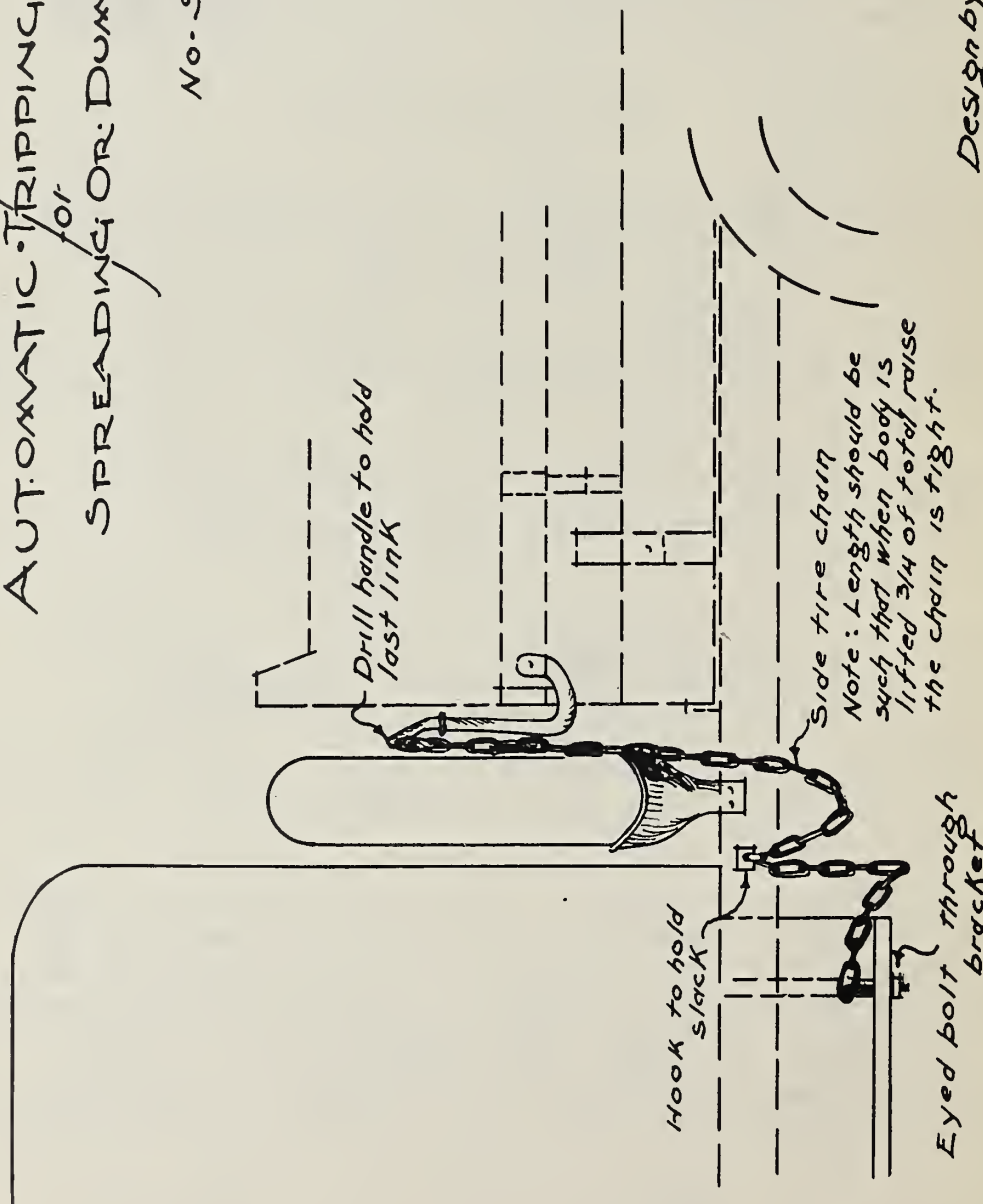
### COST

Labor	\$ 2.88
Welding Material	<u>1.00</u>
Total cost of 6 saws	\$ 3.88

(over)

# AUTOMATIC TRIPPING DEVICE for SPREADING OR DUMPING

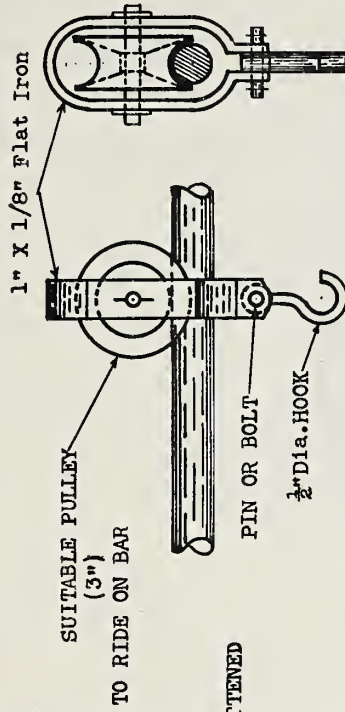
No. Scale.



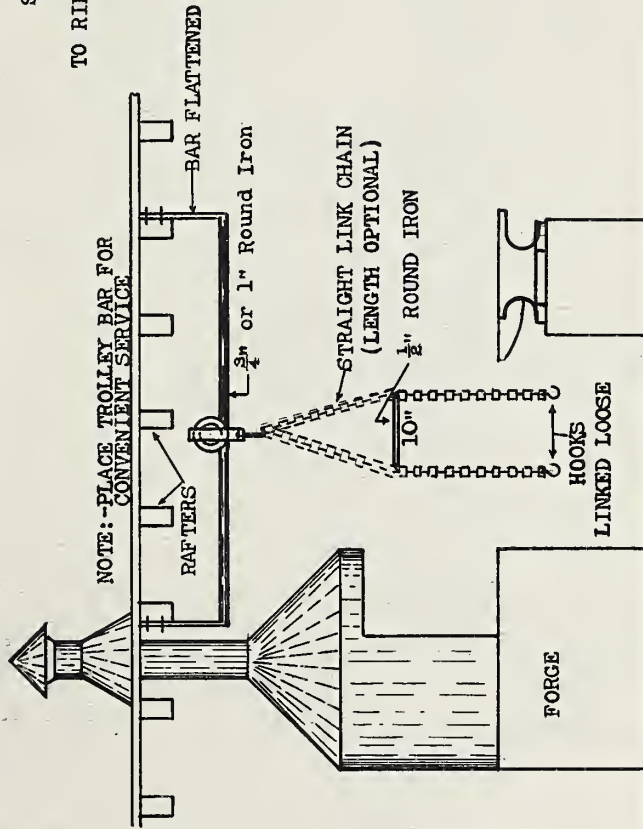
Design by: E. Hayden  
Camp S-52-Vermont

# TROLLEY FOR BLACKSMITH SHOP CAMP S-54 BUTLER N.J.

NOTE:-THIS TROLLEY WAS FOUND TO BE VERY CONVENIENT FOR THE BLACKSMITH WHEN HANDLING HEAVY ARTICLES BETWEEN THE FORGE AND THE ANVIL, SUCH AS TOWING CHAINS, AND LARGE DIAMETER BAR IRON. THE LOOSE LINKS ON THE BOTTOM CAN BE PLACED AT ANY CONVENIENT HEIGHT FORMING A SLING FOR ARTICLE BEING HANDLED.



SCALE - 3" = 1'



## METHOD OF USE

THE UPPER END OF THE BLOCKED STEEL IS FILLED WITH WATER. THE SHANK IS PLACED IN THE TWO PLATES AS SHOWN IN FIG. 1 WITH A GASKET OVER THE END TO MAKE IT AIR TIGHT. THE TWO SETS OF NUTS ARE TIGHTENED SECURELY. HEAT IS APPLIED TO THE STEEL WHICH TURNS THE WATER TO STEAM AND DEVELOPS A PRESSURE WHICH WILL BLOW THE PLUG AS IF SHOT FROM A RIFLE.

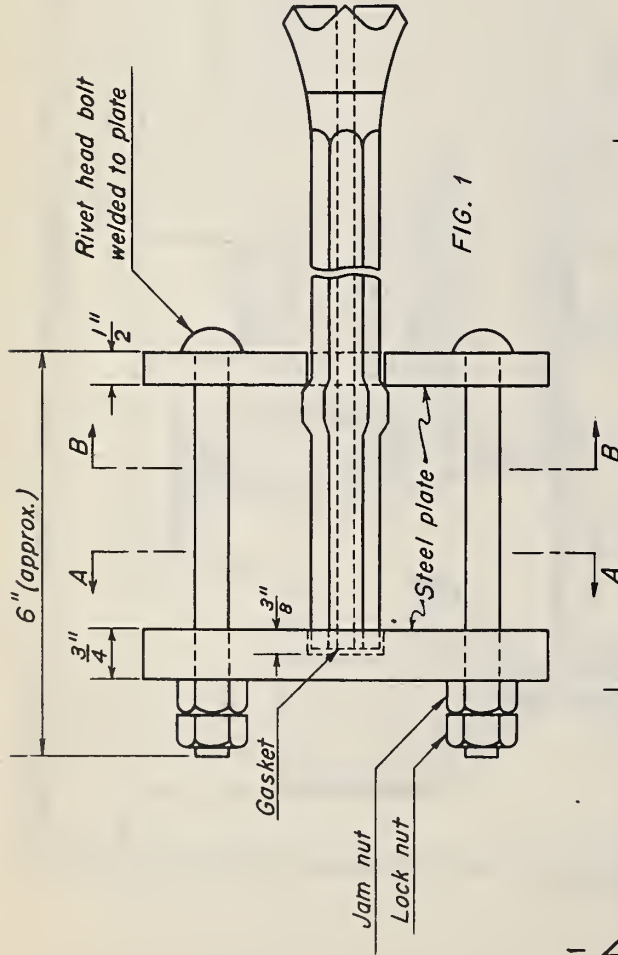
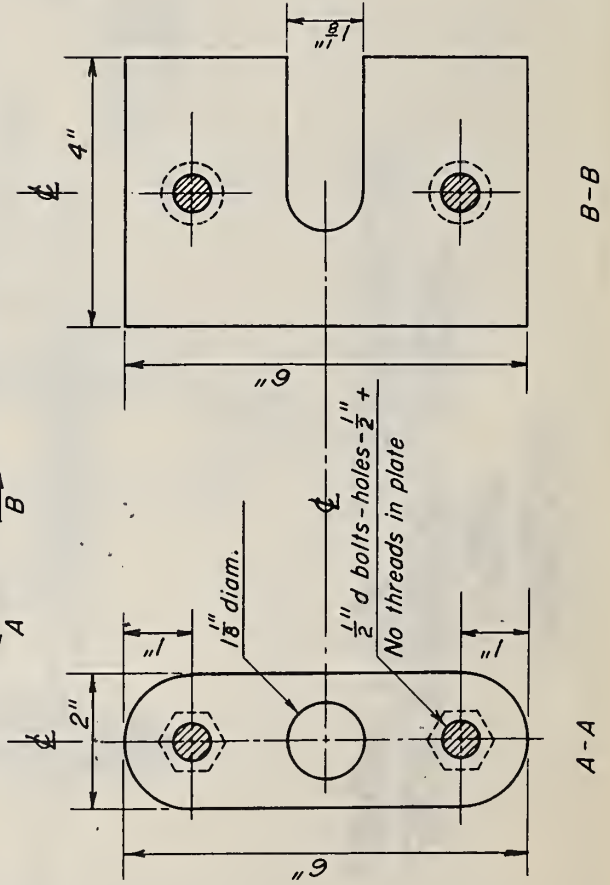


FIG. 1



U. S. DEPT. OF AGRICULTURE  
FOREST SERVICE

OLYMPIC NATIONAL FOREST

## **NEW DEVICE FOR CLEANING BLOCKED DRILL STEEL**

INVENTED BY MARIUS KAARE

Blacksmith Camp F-19 Quilcene

May 1936

SCALE:  $\frac{1}{2}$  IN. = 1 IN.